

INDEX TO VOL. VIII.

A.

- Abies Douglasii*, 402.
 grandis, 402.
 Mertensiana, 402.
 Pattoniana, 402.
Abutilon Palmeri, 289.
Acamptopappus, 634.
 sphærocephalus, 634.
Acanthogonum, 197.
 corrugatum, 197.
 rigidum, 198.
Acanthomintha, 368.
Acer macrophyllum, 379.
Achætogeteron, 651.
Achillea Millefolium, 391.
Achlys triphylla, 376.
Actæa spicata, 375.
Adenocaulon, 653.
 bicolor, 388.
Adenostyles Nardosmia, 631.
Adiantum pedatum, 411.
Agarista calliopsidea, 660.
Agrostis æquivalvis, 408.
 alba, 408.
 canina, 408.
 exarata, 408.
 pallens, 408.
 scabra, 408.
Aira danthonioides, 410.
 latifolia, 410.
 cæspitosa, 410.
Alarçonia helenioides, 654.
 angustifolia, 655.
Alchemilla occidentalis, 381.
Alisma Plantago, 403.
Allium acuminatum, 405.
 serratum, 405.
Allotropia virgata, 394.

Alnus rubra, 402.
Alopecurus pratensis, 408.
Amarantus retroflexus, 398.
Ambrosia artemisiæfolia, 653.
Amelanchier Canadensis, 382.
Ammodia, 390.
Amphiachyris dracunculoides, 633.
 Fremontii, 633.
Amphipappus Fremontii, 633.
Amsinckia lycopsoides, 397.
Anacharis Canadensis, 403.
Anaphalis margaritacea, 652.
Ancistrocarphus filagineus, 652.
Anemone deltoidea, 372.
Angelica genuflexa, 385.
Animal electricity, 344.
Antennaria dioica, 392.
 margaritacea, 392.
Apargidium boreale, 392.
Aphantochaeta exilis, 633.
Aplopappus, 634.
 Bloomeri, 636.
 cuneatus, 635.
 discoideus, 638.
 Hallii, 389.
 hypoleucus, 638.
 lanceolatus, 389.
 Macronema, 641.
 marginatus, 635.
 Menziesii, 638.
 pinifolius, 636.
 resinosus, 636.
 sphærocephalus, 634.
Apocynum androsæmifolium, 398.
Appropriations, 1, 2, 6, 109, 110,
 221, 223, 243, 310, 332.
Aquilegia chrysantha, 621.
 formosa, 375.
 leptocera, 621.

INDEX TO VOL. VIII.

A.

- Abies Douglasii*, 402.
 grandis, 402.
 Mertensiana, 402.
 Pattoniana, 402.
Abutilon Palmeri, 289.
AcampTOPappus, 634.
 sphærocephalus, 634.
Acanthogonum, 197.
 corrugatum, 197.
 rigidum, 198.
Acanthomintha, 368.
Acer macrophyllum, 379.
Achætogeteron, 651.
Achillea Millefolium, 391.
Achlys triphylla, 376.
Actæa spicata, 375.
Adenocaulon, 653.
 bicolor, 388.
Adenostyles Nardosmia, 631.
Adiantum pedatum, 411.
Agarista calliopsidea, 660.
Agrostis æquivalvis, 408.
 alba, 408.
 canina, 408.
 exarata, 408.
 pallens, 408.
 scabra, 408.
Aira danthonioides, 410.
 latifolia, 410.
 cæspitosa, 410.
Alarçonia helenioides, 654.
 angustifolia, 655.
Alchemilla occidentalis, 381.
Alisma Plantago, 403.
Allium acuminatum, 405.
 serratum, 405.
Allotropia virgata, 394.

Alnus rubra, 402.
Alopecurus pratensis, 408.
Amarantus retroflexus, 398.
Ambrosia artemisiæfolia, 653.
Amelanchier Canadensis, 382.
Ammodia, 390.
Amphiachyris dracunculoides, 633.
 Fremontii, 633.
Amphipappus Fremontii, 633.
Amsinckia lycopsoides, 397.
Anacharis Canadensis, 403.
Anaphalis margaritacea, 652.
Ancistrocarphus filagineus, 652.
Anemone deltoidea, 372.
Angelica genuflexa, 385.
Animal electricity, 344.
Antennaria dioica, 392.
 margaritacea, 392.
Apargidium boreale, 392.
Aphantochaeta exilis, 633.
Aplopappus, 634.
 Bloomeri, 636.
 cuneatus, 635.
 discoideus, 638.
 Hallii, 389.
 hypoleucus, 638.
 lanceolatus, 389.
 Macronema, 641.
 marginatus, 635.
 Menziesii, 638.
 pinifolius, 636.
 resinosus, 636.
 sphærocephalus, 634.
Apocynum androsæmifolium, 398.
Appropriations, 1, 2, 6, 109, 110,
 221, 223, 243, 310, 332.
Aquilegia chrysantha, 621.
 formosa, 375.
 leptocera, 621.

Arabis hirsuta, 377.
Arbutus Menziesii, 393.
Arceuthobium abietinum, 401.
Arctostaphylos pungens, 393.
 tomentosa, 393.
 Uva-ursi, 393.
Arenaria macrophylla, 378.
 tenella, 378.
Argyrothamnia adenophora, 294.
Arnica amplexicaulis, 392.
 latifolia, 392.
Arrhenatherum avenaceum, 411.
Artemisia Canadensis, 391.
 discolor, 391.
 dracunculoides, 391.
 Ludoviciana, 391.
Asarum Canadense, 398.
Asclepias fascicularis, 398.
 speciosa, 398.
Aspidium Filix-mas, 411.
 munitum, 411.
 spinulosum, 411.
Asplenium Filix-fœmina, 411.
 nigricans, 619.
 Trichomanes, 411.
Assessment increased, 310.
Aster, 647.
 alpigenus, 389.
 arenarioides, 647.
 carnosus, 646.
 Douglasii, 388.
 Engelmannii, 388.
 flexuosus, 647.
 Hallii, 388.
 linifolius, 647.
 marginatus, 635.
 pauciflorus, 647.
 radulinus, 388.
 salsuginosus, 389.
 Sayi, 388.
 subulata, 647.
 tenuifolius, 647.
Astigmatism, 310.
Astragalus arrectus, 289.
 Lemmoni, 626.
Atriplex littoralis, 398.
 truncata, 398.
Auditing Committee, 442.
Aurora Borealis, 55.
Australian Aborigines, 429.

Australian Kinship, 412.
Azolla Caroliniana, 412.

B.

Baccharis Douglasii, 651.
 fuliginea, 638.
 pilularis, 390.
 ramulosa, 646.
 Texana, 646.
 veneta, 638.
Bahia lanata, 390.
Balanoglossus, 486.
Balsamorhiza Careyana, 654.
 deltoidea, 390.
Barometric Observations, 330.516.
Beckmannia eruceæformis, 411.
Berberis Aquifolium, 375.
 nervosa, 375.
Betula pumila, 402.
Bezanilla Chilensis, 652.
Bidens cernua, 391.
Bigelovia, 638.
 arborescens, 640.
 Bigelovii, 642.
 Bolanderi, 641.
 ceruminosa, 643.
 Cooperi, 640.
 coronopifolia, 638.
 depressa, 643.
 diffusa, 640.
 Douglasii, 645.
 dracunculoides, 644.
 Drummondii, 639.
 fuliginea, 638.
 graveolens, 644.
 Howardii, 641.
 hypoleuca, 638.
 lanceolata, 639.
 Menziesii, 638.
 Missouriensis, 644.
 nudata, 646.
 paniculata, 644.
 Parryi, 642.
 pluriflora, 639.
 pulchella, 643.
 teretifolia, 644.
 veneta, 638.
 virgata, 646.

- Bigelovia viscidiflora*, 645.
 Wrightii, 639.
Blepharipappus scaber, 390.
Boisduvalia, 571, 600.
Boltonia, 648.
Boykinia occidentalis, 383.
Brachyactis, 647.
 ciliata, 647.
 frondosa, 647.
 humilis, 646.
 menthadora, 648.
 robusta, 648.
Brasenia peltata, 376.
Brewerina, 620.
 suffrutescens, 620.
Brickellia, 632.
 atractyloides, 290.
Brizopyrum spicatum, 410.
Brodiaea grandiflora, 404.
 multiflora, 404.
Bromus carinatus, 410.
 racemosus, 410.
 subulatus, 410.
- C.
- Cacalia Nardosmia*, 632.
Calais laciniata, 392.
Calamagrostis Aleutica, 408.
Calamintha, 368.
 canescens, 295.
Calandrinia Nevadensis, 623.
 pygmæa, 623.
Calendar, Republican, 348.
Calliastrum, 388.
Callitriche autumnalis, 401.
 Bolanderi, 401.
 marginata, 401.
 verna, 401.
Calochortus elegans, 404.
Calosphace, 369.
Caltha leptosepala, 375.
Camassia esculenta, 405.
Cambridge Observatory, 439.
Campanula Scouleri, 393.
Cantua glomeriflora, 260.
 longiflora, 261.
Caprifolium ciliosa, 627.
 hispidulum, 627.
- Caprifolium occidentale*, 627.
Carbonic Acid, 311.
Cardamine angulata, 376.
 cordifolia, 376.
 hirsuta, 377.
 oligosperma, 376.
Carex albolutescens, 407.
 amplifolia, 407.
 athrostachya, 407.
 Bolanderi, 407.
 borealis, 407.
 Breweri, 406.
 cæspitosa, 407.
 decidua, 407.
 Douglasii, 407.
 echinata, 407.
 elata, 407.
 ferruginea, 407.
 festiva, 407.
 frigida, 407.
 Hookeriana, 406.
 Kunzei, 406.
 lagopodioides, 407.
 lanuginosa, 407.
 laxiflora, 407.
 leporina, 407.
 Mertensii, 407.
 nigricans, 406.
 Oregonensis, 407.
 Pennsylvanica, 407.
 polytrichoides, 406.
 Rossii, 407.
 scoparia, 407.
 Sitchensis, 407.
 stipata, 406.
 tenella, 407.
 vesicaria, 407.
 vitalis, 407.
 vulgaris, 407.
Carphephorus, 632.
 atriplicifolius, 632.
 juncus, 632.
Carum Gairdneri, 385.
Castanopsis chrysophylla, 401.
Castilleja pallida, 396.
 parviflora, 396.
Ceanothus Oreganus, 379.
 velutinus, 379.
Cedronella Mexicana, 370.
 mierantha, 369.

- Cedronella pallida*, 370.
Celtis reticulata, 401.
 Census, Memorial on, 140.
Centrostegia, 191.
 leptoceras, 192.
 Thurberi, 192.
Centunculus minimus, 394.
Cerastium vulgatum, 378.
Cerasus, 381.
Chimaphila Menziesii, 394.
 umbellata, 394.
 China, Geological Investigations in, 111.
 Chloral Hydrate, 214, 299.
Chorizanthe, 192.
 brevicornu, 196.
 Californica, 197.
 commissuralis, 196.
 corrugata, 198.
 diffusa, 193.
 discolor, 195.
 Douglasii, 193.
 fimbriata, 195.
 frankenioides, 196.
 glabrescens, 196.
 laciniata, 194.
 Macraei, 196.
 membranacea, 193.
 nudicaule, 195.
 paniculata, 196.
 peduncularis, 196.
 perfoliata, 197.
 polygonoides, 197.
 procumbens, 195.
 pungens, 194.
 ramosissima, 196.
 rigida, 198.
 staticoides, 195.
 stellulata, 193.
 uncinata, 195.
 uniaristata, 195.
 vaginata, 196.
 virgata, 196.
 Watsoni, 199.
Chrysocoma dracunculoides, 644.
 graveolens, 644.
 nauseosa, 644.
Chrysopsis Oregana, 390.
 villosa, 390.
Chrysothamnus, 637.
 dracunculoides, 643.
 dracunculoides, 644.
 lanceolatus, 639.
 pumilus, 645.
 speciosus, 644.
 viscidiflorus, 645.
 Cilia, vibratory, 140.
 Cimicifuga elata, 375.
 Cinna arundinacea, 408.
 Circaea pacifica, 384.
 Cirsium edule, 392.
 undulatum, 392.
 Claytonia Chamissonis, 378.
 linearis, 378.
 parvifolia, 378.
 perfoliata, 378.
 Sibirica, 378.
 Clematis ligusticifolia, 372.
 Cleome lutea, 377.
 Clintonia uniflora, 404.
 Coldenia Palmeri, 292.
 Coliseum, 439.
 Collinsia grandiflora, 394.
 Collomia, 258.
 Cavanillesiana, 260.
 coccinea, 259.
 gilioides, 260.
 gracilis, 259, 397.
 grandiflora, 259, 397.
 heterophylla, 260, 397.
 leptalea, 261.
 linearis, 259, 397.
 longiflora, 261.
 micrantha, 259.
 nudicaulis, 258.
 tenella, 259.
 Thurberi, 261.
 tinctoria, 259.
 Comandra umbellata, 401.
 Committees, 3, 4, 104, 109, 139, 214, 222, 242, 243, 348, 486.
 Communications from Messrs.
 Agassiz, A., 439, 486.
 Agassiz, L., 4.
 Bliss, 243.
 Bowditch, H. I., 201.
 Bowditch, H. P., 508.
 Burden, 214.
 Cooke, 59, 310, 337, 503.

Communications from Messrs.

- Clark, 299, 201, 214.
 Crafts, 501, 507.
 Dall, 297.
 DuChaillu, 105.
 Eaton, 618.
 Ellis, G. E., 141.
 Eustis, 439.
 Fison, 412.
 Gibbs, 501.
 Gould, B. A., 499.
 Gray, A., 145, 243, 365, 620.
 Hill, 201, 299.
 Horsford, 302, 507, 510.
 Hunt, 300, 485, 486.
 Jackson, J. B. S., 501.
 Jarvis, 139.
 Johnson, 488.
 Lovering, 53, 55, 145, 215, 348, 502.
 Maack, 442.
 Morgan, 412.
 Oliver, 59.
 Pearson, 311.
 Peirce, B., 106, 139, 310, 333, 412.
 Peirce, C. S., 412.
 Peirce, J. M., 488.
 Pickering, 106, 309, 333, 507.
 Rice, 488.
 Richthofen, 111.
 Ritchie, 106.
 Rogers, W. A., 439, 485.
 Roumiantzoff, 303.
 Seaver, 506.
 Shaler, 299, 307, 309, 335, 343, 442.
 Sharples, 486, 502.
 Sophocles, 242, 297.
 Storer, F. H., 59, 311.
 Storer, H. R., 138.
 Trowbridge, 344.
 Watson, 517, 549, 573.
 Whitney, 111, 302, 330.
 Winlock, 299, 311, 328, 330.
 Wright, 332.
 Wyman, J., 140.
 Conradina, 294.
canescens, 295.

Continents, physical conditions of, 343.

- Coptis asplenifolia*, 375.
Corallorhiza Mertensiana, 403.
multiflora, 403.
striata, 403.
Coreopsis, 659.
Coronas, 218.
Cornus Nuttallii, 387.
sericea, 387.
Suecica, 387.
Corylus rostrata, 401.
Cotula australis, 391.
 Council's Reports, 7, 121, 223, 316, 442.
Crantzia lineata, 385.
Crinitaria humilis, 646.
viscidiflora, 645.
Cryptogramme acrostichoides, 411.
Cunila Mariana, 365.
Cynapium, 385.
Cynomarathrum saxatile, 287.
Cyperus acuminatus, 406.
inflexus, 406.
Cypripedium passerinum, 403.
Cystopteris fragilis, 411.

D.

- Dactylophyllum*, 263.
Dalea Hallii, 625.
trifoliolata, 625.
 Dana, Francis, death of, 484.
Danthonia Californica, 410.
'spicata, 410.
Delphinium Menziesii, 375.
trolliifolium, 375.
Desmodium Illinoense, 289.
rigidum, 289.
Diapensia, 246.
Himalaica, 246.
Lapponica, 246.
Diapensiaceæ, 243, 245.
Dicentra formosa, 376.
 Differentials of Functions, 483.
Diplarche, 244.
Dirca occidentalis, 631.
palustris, 631.
 Dividing Engine, 343.

- Dodecatheon Meadia, 394.
 Dolichogyne genistoides, 636.
 Downingia elegans, 393.
 Dracocephalum intermedium, 371.
 Dulichium spathaceum, 406.

E.

- Echinocystis fabacea, 384.
 Echinopanax horrida, 387.
 Echinosphece, 368.
 Eclipse, 297, 311.
 Ehrenberg, Anniversary of Doctorate, 53.
 Testimonial, 104.
 Elaphocera, 273.
 Elatine Americana, 377.
 Electricity, 53.
 for aneurism, 487.
 Animal, 344, 516.
 Electromotive action of fluids, 364.
 Eleocharis acicularis, 406.
 Elymus condensatus, 410.
 Sibiricus, 410.
 Sitianion, 410.
 Encelia, 656.
 albescens, 657.
 argophylla, 657.
 Californica, 656.
 calva, 658.
 conspersa, 656.
 eriocephala, 657.
 frutescens, 657.
 Ghiesbreghtii, 658.
 microcephala, 657.
 nivea, 658.
 nudicaulis, 656.
 scaposa, 656.
 Epilepis, 659.
 Epilobium alpinum, 384.
 angustifolium, 383.
 minutum, 384.
 paniculatum, 384.
 tetragonum, 383.
 Equinoxes, Precession of, 333.
 Equisetum lævigatum, 412.
 limosum, 412.
 Eragrostis reptans, 408.
 Eremocarpus setigerus, 401.

- Ericameria diffusa, 640.
 Erigeron, 648.
 argentatum, 649.
 armeriaefolium, 648.
 Bellidiastrum, 389, 648.
 cæspitosum, 649, 650.
 canum, 650.
 cinereum, 648.
 decumbens, 389.
 delphinifolium, 650.
 divergens, 648.
 Ervendbergii, 650.
 filifolium, 389.
 flagellare, 649.
 glabratum, 648.
 glaucum, 389.
 lonchophyllum, 648.
 Nevadense, 649.
 racemosum, 648.
 speciosum, 389.
 stenophyllum, 650.
 strigosum, 389.
 ursinum, 649.
 Eriogoneæ, 145.
 Eriogonum acaule, 163.
 alatum, 154.
 androsaceum, 162.
 angulosum, 187.
 annuum, 173.
 atrorubens, 154.
 brachypodium, 180.
 brevicaule, 172.
 cæspitosum, 157.
 cernuum, 182.
 ciliatum, 186.
 cinereum, 168.
 compositum, 158, 398.
 confertiflorum, 171.
 corymbosum, 170.
 dasyanthemum, 177.
 decumbens, 174.
 deflexum, 181.
 dichotomum, 175, 399.
 divaricatum, 188.
 Douglasii, 157.
 elatum, 168, 399.
 effusum, 172.
 elongatum, 176.
 ericæfolium, 170.
 fasciculatum, 169.

Eriogonum Fendlerianum, 171.

- flavum, 156.
- glandulosum, 180.
- Gordoni, 185.
- gracile, 178.
- Greggii, 187.
- Heermanni, 179.
- hemipterum, 154.
- heracleoides, 159.
- hieracifolium, 154.
- incanum, 161.
- inflatum, 185.
- intricatum, 180.
- Jamesii, 155.
- Kelloggii, 293.
- Kingii, 165.
- lachnogynum, 163.
- latifolium, 166.
- leptocladon, 172.
- leptophyllum, 171.
- Lobbii, 162.
- lonchophyllum, 173.
- longifolium, 155.
- marifolium, 161.
- microthecum, 170.
- multiceps, 166.
- multiflorum, 174.
- niveum, 174.
- nudum, 167, 398.
- nutans, 181.
- oblongifolium, 167.
- ovalifolium, 164.
- parvifolium, 169.
- pauciflorum, 166.
- pharnaceoides, 189.
- Plumatella, 179.
- polifolium, 169.
- polyanthum, 158.
- polycladon, 178.
- proliferum, 164.
- pusillum, 184.
- pyrolæfolium, 162.
- racemosum, 175.
- reniforme, 184.
- roseum, 177.
- rosmarinifolium, 169.
- rotundifolium, 183.
- salsuginosum, 188.
- spergulinum, 189.
- sphærocephalum, 157.

Eriogonum strictum, 175.

- tenellum, 186.
- Thomasii, 184.
- Thurberi, 183.
- thymoides, 156.
- tomentosum, 155.
- Torreyanum, 158.
- trichopodium, 185.
- truncatum, 173.
- umbellatum, 160, 398.
- undulatum, 155.
- villiflorum, 630.
- vimineum, 177, 399.
- virgatum, 177.
- Watsoni, 182.
- Wrightii, 176.

Eritrichium Californicum, 397.

- Chorisianum, 397.
- fulvum, 397.
- muricatum, 397.
- plebeium, 397.

Erodium cicutarium, 378.*Eryngium petiolatum*, 385.*Erysimum asperum*, 377.*Erythraea Nuttallii*, 398.*Eschscholtzia Californica*, 376.

Ethnology of Indian Tribes, 243.

Euphorbia glyptosperma, 401.*serpyllifolia*, 401.*Evax*, 651.*Heldrichii*, 651.*perpusilla*, 651.

Expert Testimony, 516.

F.

Fellows deceased:—

William Allen, 108, 123.

William Chauvenet, 324.

Elbridge J. Cutler, 317.

Moses Ashley Curtis, 471.

Samuel Luther Dana, 26.

Jeremiah Day, 18.

Chester Dewey, 25.

Charles Folsom, 485.

Nathaniel Langdon Frothingham, 226.

James Hadley, 486.

John Edwards Holbrook, 473.

Fellows deceased :—

Charles Jackson, Jr., 480.
 James Jackson, 8.
 Charles C. Jewett, 14.
 John Pendleton Kennedy, 323.
 Levi Lincoln, 7, 122.
 Daniel Lord, 22.
 Charles Greeley Loring, 9.
 Dennis Hart Mahan, 474.
 Horace Mann, 103, 129.
 George G. Meade, 485.
 William Mitchell, 108, 131.
 Samuel F. B. Morse, 478.
 George Rapall Noyes, 7, 127.
 Francis Peabody, 24.
 Octavius Pickering, 103, 125.
 Thomas Sherwin, 224.
 William Smyth, 29.
 Theodore Strong, 228.
 George Ticknor, 319.
 Jonathan Mason Warren, 15.
 James Davenport Whelpley, 482.

Fellows elected :—

Charles Francis Adams, 308, 317.
 J. A. Allen, 333, 443.
 Robert Amory, 327.
 James B. Angell, 2, 122.
 Nathaniel E. Atwood, 103, 121.
 G. R. Baldwin, 335, 442.
 James M. Barnard, 139, 224.
 Horace Binney, 52.
 Ferdinand Bôcher, 308, 317.
 C. O. Boutelle, 486.
 H. P. Bowditch, 440.
 William T. Brigham, 223.
 Charles E. Brown-Séguard, 52.
 George J. Brush, 308, 317.
 Henry J. Clark, 221, 317.
 W. J. Clark, 2, 121.
 Algernon Coolidge, 223.
 James M. Crafts, 52.
 E. J. Cutler, 302, 316.
 H. G. Denny, 332, 442.
 George Derby, 221, 316.
 Charles A. Dunbar, 348, 443.
 C. C. Everett, 308, 317.

Fellows elected :—

William Everett, 308, 317.
 N. St. J. Green, 486.
 Hermann Hagen, 103, 122.
 John L. Hayes, 2, 122.
 Rowland G. Hazard, 52.
 Nathaniel Holmes, 221, 316.
 R. W. Hooper, 335.
 H. H. Hunnewell, 440.
 Alpheus Hyatt, 223.
 C. L. Jackson, 486.
 Samuel W. Johnson, 327, 443.
 C. C. Langdell, 302, 316.
 Henry Carey Lea, 302, 317.
 Leo Lesquereux, 443.
 Daniel Lord, 52.
 Horace Mann, 103, 122.
 J. M. Merrick, 486.
 Lewis H. Morgan, 2, 122.
 Edward S. Morse, 224.
 Simon Newcomb, 221, 317.
 W. R. Nichols, 486.
 Stephen T. Olney, 308, 317.
 Alpheus A. Packard, Jr., 103, 122.
 Henry W. Paine, 308, 317.
 John K. Paine, 333, 443.
 Thomas W. Parsons, 139, 224.
 Charles C. Perkins, 221, 316.
 J. B. Perry, 335, 442.
 William H. Pettee, 333, 443.
 Edward C. Pickering, 52.
 Francis Pourtalès, 327, 442.
 Raphael Pumpelly, 221, 316.
 Edmund Quincy, 103.
 Alfred P. Rockwell, 223.
 William T. Roepper, 440.
 John Rodgers, 52.
 William A. Rogers, 348, 443.
 Truman H. Safford, 221, 317.
 Samuel H. Scuddet, 2, 59, 122.
 Edwin P. Seaver, 333, 443.
 Nathaniel S. Shaler, 139, 224.
 S. P. Sharples, 335, 442.
 Jeremiah Smith, 308, 317.
 J. Lawrence Smith, 52.
 John Trowbridge, 333, 442.
 Andrew D. White, 2, 122.

Fellows elected :—

- Henry L. Whiting, 139, 224.
 John G. Whittier, 308, 317.
 Charles A. Young, 327, 443.
 E. J. Young, 302, 316.
 Fenzlia, 264.
Ferula dissecta, 385.
Festuca microstachys, 409.
 Myurus, 409.
 occidentalis, 410.
 ovina, 410.
 scabrella, 410.
Filago Arizonica, 652.
Fimbristylis capillaris, 406.
 Finance Committee, 328, 441.
Flourensia, 656.
 cernua, 656.
 corymbosa, 656.
 laurifolia, 656.
 thurifera, 656.

Foreign Honorary Members deceased :—

- Charles Babbage, 455.
 Immanuel Bekker, 446.
 August Böeckh, 49.
 Francis Bopp, 47.
 David Brewster, 38.
 Michael Faraday, 31.
 Thomas Graham, 230.
 George Grote, 443.
 John F. W. Herschel, 461.
 Sir William Lawrence, 43.
 Henry Longueville Mansel, 453.
 Henry Hart Milman, 137.
 Karl Joseph Anton Mittermaier, 51.
 Roderick Impey Murchison, 448.
 Frederic Overbeck, 239.
 Pierre François Olive Rayer, 44.
 Frederic Adolf Trendelenburg, 451.
 Charles Frederick Philip von Martius, 134.
 Hugo von Mohl, 459.

Foreign Honorary Members elected :—

- Alexander Braun, 221, 317.

Foreign Honorary Members elected :—

- Bluntschli, 2, 59, 122.
 M. Chevreul, 53.
 J. H. W. Döllen, 440.
 H. L. F. Helmholtz, 103, 122.
 Wilhelm Hofmeister, 506.
 Benjamin Jowett, 440.
 Kaulbach, 302, 317.
 G. Kirchhoff, 302, 317.
 Lassen, 2.
 Mansel, 3, 59.
 James Martineau, 440.
 Charles Merivale, 221, 317.
 Theodor Mommsen, 440.
 Karl F. Rammelsburg, 440.
 Ritschl, 2, 122.
 Edward Sabine, 53.
 William Thompson, 440.
 Charles Wheatstone, 103, 122.
 Fossil remains of man, 302, 501.
Fragaria vesca, 381.
Frankenia Jamesii, 622.
Franseria bipinnatifida, 390.
Fraxinus Oregana, 398.
 Fresnel's formula, 331.

G.

- Gaillardia aristata*, 390.
Galacineæ, 246.
Galax, 245, 247.
Galium aparine, 387.
 boreale, 388.
 Littellii, 388.
 triflorum, 387.
Gaultheria Myrsinites, 393.
 Shallon, 393.
Gaura parviflora, 384.
Gayophytum Nuttallii, 384.
Gentiana affinis, 398.
 Geology of China, 111.
Geranium Carolinianum, 378.
 incisum, 378.
Geum macrophyllum, 381.
Ghiesbreghtia, 629.
 grandiflora, 630.
 Gift from Mr. Treadwell, 327.

Gift from M. Dumas, 484.
Gilia, 261.

achilleæfolia, 277.
aggregata, 275.
androsacea, 265.
atractyloides, 271.
aurea, 264.
Bigelovii, 265.
Bolanderi, 263.
Breweri, 269.
Californica, 268.
campanulata, 279.
capitata, 277.
ciliata, 266.
congesta, 274.
coronopifolia, 275.
cotulaefolia, 269.
crassifolia, 278.
dactylophyllum, 263.
demissa, 263.
densiflora, 265.
densifolia, 272.
dianthoides, 264.
dichotoma, 265.
divaricata, 260, 270.
filicaulis, 270.
filifolia, 272.
filipes, 263.
floccosa, 272.
floribunda, 267.
fœtida, 279.
Gayana, 279.
glomeriflora, 260.
gossypifera, 274.
Gunnisoni, 273.
iberidifolia, 274.
incisa, 279.
inconspicua, 278.
intertexta, 269, 398.
laciniata, 278.
lanata, 273.
leptomeria, 278.
leucocephala, 270.
liniflora, 263.
lutescens, 272.
micrantha, 266.
micromeria, 279.
minima, 269.
minutiflora, 277.
multicaulis, 277.

Gilia multiflora, 260.
nudicaulis, 266.
Nuttallii, 267.
pinnatifida, 276.
polycladon, 274.
pumila, 274.
pungens, 268.
pusilla, 263.
rigidula, 280.
setosissima, 271.
spicata, 273.
squarrosa, 269, 397.
stenothyrsa, 276.
subnuda, 276.
tenella, 266, 397.
tenerrima, 277.
tenuiflora, 278.
tricolor, 278.
virgata, 272.
viscidula, 271.
Watsoni, 267.
Wrightii, 273.

Giliandra, 276.

Githopsis specularioides, 393.

Glyceria fluitans, 408.

nervata, 408.

pauciflora, 408.

Glycosma ambiguum, 386.

Glycyrrhiza lepidota, 380.

Gnaphalium leucocephalum, 391,
 653.

luteo-album, 391.

margaritaceum, 653.

microcephalum, 391.

palustre, 391.

purpureum, 391.

Godetia, 571, 596.

Goodyera Menziesii, 403.

Gratiola ebracteata, 395.

Greek Dictionary of Sophocles,
 242, 297.

Grindelia discoidea, 390.

hirsutula, 390.

humilis, 390.

integrifolia, 390.

Gulf Stream, 4, 5.

Gutierrezia, 632.

gymnospermoides, 632.

Wrightii, 632.

Gymnogramme triangularis, 411.

H.

- Habenaria dilatata*, 403.
 elegans, 403.
 foetida, 403.
 hyperborea, 403.
Halos, theory of, 145, 215.
Harrison Boiler, 337.
Hawaii, craters of, 333, 507.
Hedeoma, 366.
 acinoidea, 366.
 ciliata, 367.
 dentata, 366.
 Drummondii, 367.
 graveolens, 367.
 hispida, 366.
 incana, 296.
 nana, 366.
 oblongifolia, 367.
 piperita, 366.
 plicata, 366, 367.
 pulegioides, 366.
Helenium autumnale, 390.
Helianthus tephrodes, 658.
Heliotype process, 516.
Hesperexax, 651.
Heterocodon rariflorum, 393.
Heterospace, 368.
Heuchera cylindrica, 383.
 micrantha, 383.
Hieracium albiflorum, 393.
 Scouleri, 392.
 triste, 392.
 umbellatum, 393.
Hierochloe macrophylla, 411.
Hofmeisteria, 631.
Honorary Members. See *Foreign*
 Honorary Members.
Hordeum pratense, 410.
Horkelia congesta, 381.
Hosackia angustifolia, 626.
 bicolor, 380, 626.
 crassifolia, 380, 626.
 decumbens, 380.
 gracilis, 626.
 incana, 626.
 lathyroides, 626.
 oblongifolia, 626.
 parviflora, 380.
 Purshiana, 380.

- Hosackia stipulata*, 626.
 Torreyi, 625.
Hugelia, 271.
Hydraulic mining, 302.
Hydric sulphide, 503.
Hypericum anagalloides, 377.
 Scouleri, 377.

I.

- Ice*, Columnar Structure of, 507.
Illumination of spider-lines, 517.
Ilysanthes gratioloides, 396.
Injection of Lymph-Spaces, 508.
Ipomopsis, 275.
Iris tenax, 403.
Iron Ore, Volumetric Analysis of,
 507.
Isoetes Nuttallii, 411.
Isopyrum Hallii, 374.
Ivesia Muirii, 621.

J.

- Juncus acuminatus*, 406.
 bufonius, 405.
 Drummondii, 405.
 effusus, 405.
 falcatus, 405.
 longistylis, 405.
 Mertensianus, 406.
 oxymenis, 406.
 patens, 405.
 tenuis, 405.
 triformis, 405.
 xiphioides, 406.
Juniperus communis, 402.
Jupiter, 299.

K.

- Kinship*, Australian, 412.
Kosteletzkya digitata, 289.

L.

- Labiatae*, 365.
Lagophylla ramosissima, 391.

- Lastarriæa Chilensis*, 199, 293.
Lasthenia glaberrima, 391.
Lathyrus polyphyllus, 381.
 Torreyi, 380.
 venosus, 381.
 Lead Salt in Sherry Wine, 59.
 Sulphate of, in alcoholic
 Saline Solutions, 59.
Ledum glandulosum, 394.
 Legacy of D. Treadwell, 439.
Lemna minor, 403.
Lepidium Menziesii, 377.
Leptodactylon, 267, 268.
Leptosiphon, 265, 266.
Leptosyne, 660.
 Douglasii, 660.
 gigantea, 661.
 maritima, 661.
 Newberryi, 660.
 Stillmanii, 660.
Leptotenia, 385.
Lessingia, 634.
 Germanorum, 634.
 leptoclada, 634.
 Library Committee, 2, 109, 220,
 243, 329, 442.
 Library, donations to, 65, 102.
Ligusticum apiifolium, 385.
Lilium Canadense, 404.
Linanthus, 264.
Linnæa borealis, 387.
Linosyris albicaulis, 644.
 arborescens, 640.
 Bigelovii, 642.
 Bolanderi, 641.
 carnosa, 646.
 ceruminosa, 643.
 coronopifolia, 638.
 dentata, 638.
 depressa, 643.
 Drummondii, 639.
 graveolens, 644.
 heterophylla, 639.
 hirtella, 639.
 Howardii, 641.
 humilis, 646.
 lanceolata, 639.
 Mandonii, 638.
 Mexicana, 638.
 Parryi, 642.
Linosyris pluriflora, 639.
 pulchella, 643.
 ramulosa, 646.
 serrulata, 646.
 Sonoriensis, 291, 640.
 squamata, 290, 646.
 teretifolia, 644.
 Texana, 646.
 viscidiflora, 389, 644, 645.
 Wrightii, 639.
Linum adenophyllum, 624.
Listera cordata, 403.
Lolium perenne, 410.
Lomaria Spicant, 411.
 Longitude of Cambridge, etc., 502.
Lonicera, 627.
 Breweri, 629.
 cærulea, 628.
 Californica, 387, 628.
 ciliata, 628.
 ciliosa, 387, 627.
 conjugalialis, 629.
 hispidula, 387, 627.
 interrupta, 628.
 involutrata, 387, 628.
 Ledebourii, 628.
 microphylla, 628.
 oblongifolia, 629.
 occidentalis, 627.
 subspicata, 628.
 Utahensis, 628.
Lophochlæna refracta, 409.
Ludwigia palustris, 384.
Lupinus bicolor, 379.
 holosericeus, 379.
 latifolius, 379.
 laxiflorus, 379.
 leucophyllus, 379.
 minimus, 379.
 ornatus, 379.
 parviflorus, 379.
 polyphyllus, 379.
 Revision of, 517.
 Index to species, 539.
Luzula campestris, 406.
 comosa, 406.
 spadicea, 406.
Lycium Palmeri, 292.
Lycopus Americanus, 286.
 Arkansanus, 286.

- Lycopus Europæus*, 286, 287.
 lucidus, 286.
 macrophyllus, 285.
 obtusifolius, 286.
 pumilus, 285.
 rubellus, 285.
 sessilifolius, 285.
 sinuatus, 286, 396.
 uniflorus, 285.
 Virginicus, 285, 396.
 vulgaris, 287.
Lymph Spaces in Fasciæ, 508.
Lysichiton Kamtschatense, 403.

M.

- Macbridea*, 371.
 pulchella, 371.
Machæranthera canescens, 388.
Macronema discoidea, 641.
Macrorhynchus elatus, 392.
 heterophyllus, 392.
 laciniatus, 392.
 Lessingii, 392.
Madia elegans, 391.
 filipes, 391.
 glomerata, 391.
 Nuttallii, 391.
 racemosa, 391.
Mahonia, 375.
Malacothrix crepoides, 393.
Mars, 299.
Marsilia vestita, 412.
Medal, Rumford, award, 109, 329.
 presentation, 141, 337.
Melampodium cupulatum, 291.
Melica bulbosa, 409.
Members, Foreign Honorary.
 See Foreign Honorary
 Members.
Mentha Canadensis, 396.
Mentzelia lævicaulis, 384.
Menziesia ferruginea, 393.
Mertensia paniculata, 397.
Mesoneuris, 661.
 bipinnatifida, 661.
Mica, 59.
Microgilia, 276.
Microlotus, 380.

- Micromeria Douglasii*, 396.
Micropus, 651.
 Californicus, 391.
 globiferus, 652.
 Griffithii, 652.
Milla hyacinthina, 404.
Mimulus alsinoides, 395.
 floribundus, 395.
 luteus, 395.
 moschatus, 395.
Mitella caulescens, 383.
 trifida, 383.
Mœhringia, 378.
Mollugo verticillata, 378.
Monarda, 369.
 aristulata, 369.
 Bradburiana, 369.
 clinopodia, 369.
 didyma, 369.
 penicillata, 369.
 punctata, 369.
 Russelliana, 369.
 tenui-aristata, 369.
Monotropa fimbriata, 629.
 Hypopitys, 629.
Moon-temperature, 334.
Mucronea, 196.
 Californica, 197.
Mulgedium leucophæum, 393.
 pulchellum, 393.
Myrica Californica, 401.
Myriophyllum hippuroides, 383.

N.

- Nama*, 282.
 Berlandieri, 282.
 biflora, 282.
 Coulteri, 283.
 demissa, 283.
 dichotoma, 283.
 hirsuta, 285.
 hispidula, 283.
 Jamaicensis, 282.
 latiflora, 284.
 Lobbii, 285.
 longiflora, 285.
 origanifolia, 284.
 rupicola, 284.
 rupicola, 284.

Nama Sandwicensis, 283.
 sericea, 285.
 systyla, 285.
 undulata, 282.
Nardophyllum genistoides, 636.
Nasturtium curvisiliqua, 376.
 palustre, 376.
Navarretia, 268, 270.
 heterophylla, 260.
Nebula, 516.
Nemacaulis Nuttallii, 146.
Nemophila parviflora, 397.
Nicotiana multivalvis, 398.
Nuphar polysepalum, 376.
Nuttallia cerasiformis, 381.

O.

Observatory of Cordoba, 499.
Oenante sarmentosa, 385.
Oenothera albicaulis, 384.
 densiflora, 384.
 glabella, 384.
 Lindleyi, 384.
 purpurea, 384.
 Revision of, 573.
 Index to species, 601.
Officers elected, 3, 7, 104, 110,
 121, 122, 328, 441.
Optical Meteorology, 215.
Oritropium, 389.
Orthocarpus bracteosus, 396.
 hispidus, 396.
 pusillus, 396.
Orthomeris, 388.
Osmorrhiza nuda, 386.
Oxalis corniculata, 378.
 Oregana, 378.
Oxytheca, 190.
 dendroidea, 190.
 glandulosa, 181.
 perfoliata, 191.
 Watsoni, 191.

P.

Pachystima Canbyi, 623.
 Myrsinites, 378, 624.

Palafoxia leucophylla, 291.
Panicum dichotomum, 411.
 scoparium, 411.
Pedicularis Groenlandica, 396.
 racemosa, 396.
Pentachaeta, 633.
 aurea, 633.
 exilis, 633.
 gracilis, 633.
Pentstemon diffusus, 395.
 Menziesii, 394.
 Palmeri, 291.
 Richardsonii, 395.
 triphyllus, 394.
Perilomia, 370.
Periodicity of the Aurora Borealis,
 55.
Perityle Acmea, 648.
Peucedanum leiocarpum, 386.
 macrocarpum, 385.
 nudicaule, 385.
 triternatum, 385.
 utriculatum, 385.
Phegopteris Dryopteris, 411.
Phelipaea pinetorum, 394.
Philadelphus Lewisii, 383.
Phleum alpinum, 408.
Phoradendron flavescens, 401.
Phyllotaxis, 335.
Phloganthea, 260.
Phlox, 249.
 acuminata, 249.
 amoena, 251.
 andicola, 254.
 aristata, 251, 252.
 bifida, 251.
 bryoides, 253.
 cæspitosa, 253.
 canescens, 253.
 carnea, 250.
 Carolina, 249.
 cordata, 249.
 corymbosa, 249.
 crassifolia, 251.
 divaricata, 251.
 Douglasii, 254, 397.
 Drummondii, 257.
 Floridana, 250.
 glaberrima, 250.
 glandulosa, 249.

- Phlox glomerata*, 251.
 glutinosa, 251.
 Hentzii, 252.
 Hoodii, 253.
 humilis, 255.
 involuta, 251.
 latifolia, 249.
 linearifolia, 255.
 longiflora, 249.
 longifolia, 249, 254, 255.
 macrantha, 257.
 maculata, 249.
 muscoïdes, 253.
 nana, 256.
 nitida, 250.
 nivalis, 252.
 occidentalis, 256.
 odorata, 249.
 ovata, 248.
 paniculata, 249.
 penduliflora, 249.
 pilosa, 250.
 pinnata, 260.
 procumbens, 252.
 puberula, 250.
 pyramidalis, 249.
 reflexa, 249.
 reptans, 251.
 revoluta, 250.
 Richardsonii, 253.
 Rœmeriana, 257.
 scabra, 249.
 setacea, 252.
 Sibirica, 254, 255.
 Sickmanni, 249.
 speciosa, 255, 256.
 Stellaria, 252.
 stolonifera, 251.
 suaveolens, 249.
 subulata, 252.
 suffruticosa, 250.
 teretiflora, 249.
 triflora, 250.
 triovulata, 257.
 undulata, 249.
 Walteri, 251.
Photo-engraving, 488.
Photograph of sun, 228.
Phyllotaxis, 332.
Physostegia imbricata, 371.
 Physostegia intermedia, 371.
 parviflora, 371.
 Virginiana, 371.
Pimpinella Apiodora, 385.
Pinus albicaulis, 402.
 contorta, 402.
 monticola, 402.
 ponderosa, 402.
Pityosperma, 375.
Plagiobotrys canescens, 397.
Planets, mean motions of, 336.
Plantago Patagonica, 394.
Plectritis congesta, 388.
Pleuricospora fimbriolata, 394, 629.
Poa andina, 409.
 stenantha, 409.
 tenuifolia, 409.
Polemonium, 280.
 cæruleum, 281.
 capitatum, 281.
 confertum, 280.
 foliosissimum, 281.
 humile, 281.
 Mexicanum, 281.
 micranthum, 282.
 pulchellum, 281.
 reptans, 281.
 Richardsonii, 281.
 viscosum, 280.
Poliomintha, 295.
 incana, 296, 365.
 longiflora, 296, 365.
 marifolia, 365.
 mollis, 365.
Polygonum amphibium, 399.
 aviculare, 401.
 Bistorta, 399.
 coarctatum, 401.
 Convolvulus, 401.
 Davisæ, 399.
 Hartwrightii, 294.
 nodosum, 399.
 ramosissimum, 401.
 tenue, 401.
Polypodium Ghiesbreghtii, 618.
 Scouleri, 411.
 Stenoloma, 618.
 vulgare, 411.
Polypogon Monspelieris, 408.

- Polyps, symmetry of, 335.
 Potamogeton Claytonii, 402.
 compressus, 402.
 natans, 402.
 pectinatus, 403.
 perfoliatus, 402.
 pusillus, 403.
 Robbinsii, 403.
 Potentilla diversifolia, 381.
 glandulosa, 381.
 gracilis, 381.
 Revision of, 549.
 Index to species, 563.
 Poterium annuum, 381.
 officinale, 381.
 Precession of the equinoxes, 333.
 Prehistoric man, 302, 303, 309.
 Prosartes Hookeri, 404.
 Prunus mollis, 381.
 Virginiana, 381.
 Psilocarphus, 652.
 globiferus, 652.
 Oreganus, 390, 652.
 tenellus, 652.
 Psoralea lanceolata, 380.
 physodes, 380.
 Pterigopappus, 653.
 compactus, 653.
 Pteris aquilina, 411.
 Pterostegia, 199.
 diphylla, 200.
 drymarioides, 200.
 macroptera, 200.
 microphylla, 200.
 Publication Committee, 329, 440, 441.
 Pugiopappus, 659.
 Bigelovii, 660.
 Breweri, 660.
 calliopsidea, 660.
 Pyrola bracteata, 394.
 chlorantha, 394.
 minor, 394.
 picta, 394.
 Pyrrocoma Menziesii, 638.
 Pyrus rivularis, 382.
 sambucifolia, 382.
 Pyxidanthra, 244, 246.
- R.
- Ranunculus adoneus, 373.
 alismæfolius, 372.
 Cymbalaria, 372.
 fascicularis, 372.
 Flammula, 373.
 heterophyllus, 372.
 Nelsoni, 372.
 orthorhynchus, 373.
 Pseudo-Hirculus, 372.
 tenellus, 373.
 Reports, 7, 53, 104, 121, 140, 214, 220, 223, 300, 327, 329, 439, 440, 442, 485, 506.
 Republican Calendar, 349.
 Rhamnus Purshianus, 379.
 Rhododendron albiflorum, 394.
 Californicum, 394.
 Rhus diversiloba, 379.
 Rhynchospora alba, 406.
 Ribes bracteosum, 383.
 divaricatum, 383.
 sanguineum, 383.
 setosum, 383.
 Richmond, Geology of, 307.
 Romanzovia Sitchensis, 397.
 Rosa blanda, 382.
 Californica, 382.
 fraxinifolia, 382.
 gymnocarpa, 382.
 Kamtschatica, 382.
 pisocarpa, 382.
 Rubus leucodermis, 381.
 macropetalus, 382.
 Nutkanus, 381.
 pedatus, 381.
 spectabilis, 381.
 Rudbeckia occidentalis, 391.
 Rumex Acetosa, 399.
 salicifolius, 399.
 Rumford Committee, 1, 6, 104, 109, 121, 140, 220, 311, 328, 329, 332, 335, 337, 440, 441.
 Fund, 300.
 Medal, award, 141, 337.
 Rumford's Works, 1, 109, 311, 327, 506.

S.

- Sagina* Linnæi, 378.
Salix chlorophylla, 402.
 lanceolata, 402.
 longifolia, 402.
 sessilifolia, 402.
 Sitchensis, 402.
Salizaria, 370.
Salvia *carduacea*, 368.
 Columbariæ, 368.
 Engelmanni, 368.
 Greggii, 369.
 Henryi, 368.
 Parryi, 369.
 platycheila, 292.
 Rœmeriana, 368.
 spicata, 369.
 Texana, 368.
Salviastrum *canescens*, 368.
Sambucus *glauca*, 387.
 pubens, 387.
Sanicula *bipinnatifida*, 385.
 Menziesii, 385.
Saxifraga *cæspitosa*, 383.
 elegans, 383.
 heterantha, 383.
 integrifolia, 382.
 punctata, 383.
 Tolmiei, 383.
 Virginienis, 382.
Schizocodon, 244, 247.
Scirpus *lacustris*, 406.
 pygmaeus, 406.
Scoliopus *Bigelovii*, 404.
Scrophularia *nodosa*, 395.
Scutellaria, 370.
 angustifolia, 370.
 antirrhinoides, 370, 396.
 Drummondii, 370.
 hederacea, 370.
 lateriflora, 397.
 nervosa, 370.
 parvula, 370, 630.
 resinosa, 370.
 tuberosa, 670.
 Wrightii, 370.
Sea-dredging, 5.
Sedum *spathulifolium*, 383.
Selaginella *rupestris*, 412.
Senecio *exaltatus*, 392.
 fastigiatus, 392.
 subnudus, 392.
 triangularis, 392.
Sericocarpus *Oregonensis*, 388.
 rigidus, 388.
Seseli *Hallii*, 287.
 Nuttallii, 287.
Sherry Wine, *Lead Salts* and free
 Sulphuric Acid in, 59.
Shortia, 244, 246.
 galacifolia, 247.
 ilicifolia, 247.
Sidalcea *malvæflora*, 378.
Siemen's process, 300.
Silene *Drummondii*, 377.
 Menziesii, 378.
Silphium *gracile*, 653.
Simsia *calva*, 658.
 canescens, 657.
 frutescens, 657.
 scaposa, 657.
Siphonella, 266, 267.
Sisymbrium *deflexum*, 377.
Sisyrinchium *tinctorum*, 403.
Sium *lineare*, 386.
Slaughter-house refuse, 502.
Smilacina *bifolia*, 404.
Solar eyepiece, 309.
Solidago *diffusa*, 640.
 elongata, 389.
 gigantea, 389.
 occidentalis, 389.
 Virga-aurea, 389.
Sophocles, omission in *Dictionary*
 of, 242, 297.
Sorbus, 382.
Soundings, 4.
Sparganium *simplex*, 403.
Spartina *cynosuroides*, 408.
Spectroscope, 104, 106, 311, 330,
 499.
Spectrum, recording lines in, 299.
Specularia *perfoliata*, 393.
Spergularia *media*, 378.
Spiranthes *Romanzoviana*, 403.
Spiræa *arizæfolia*, 381.
 betulæfolia, 381.
 Douglasii, 381.
 Menziesii, 381.

Spiraea opulifolia, 381.
Sporobolus cryptandrus, 408.
Spraguea umbellata, 378.
Stachyhedeoma, 367.
Stachys Bigelovii, 371.
 ciliata, 397.
 coccinea, 371.
 palustris, 397.
 Star-spectroscope for Cordoba, 499.
 Statutes, 242, 301, 502, 506, 515.
Stellaria borealis, 378.
 crispa, 378.
 media, 378.
 nitens, 378.
Stenanthium occidentale, 405.
Stephanomeria paniculata, 392.
Stipa occidentalis, 408.
Streptopus amplexifolius, 404.
 roseus, 404.
Stylocline, 652.
 filaginea, 652.
 gnaphalioides, 652.
 Griffithii, 652.
 micropoides, 652.
 Sulphuric acid in Sherry Wine, 59.
 Sun-photographs, 223.
 Sun-spots, 516.
Symphoricarpos racemosus, 387.
Synthyris reniformis, 396.
 Systems of Consanguinity, 412.

T.

Tables for Republican Calendar, 352.
Talinum pygmæum, 623.
Taxus brevifolia, 402.
Tellima grandiflora, 383.
 Testimony of experts, 516.
Teucrium Cubense, 372.
 laciniatum, 372.
Thalictrum heterophyllum, 372.
 occidentale, 372.
 Thermo-electric currents, 516.
Thermopsis fabacea, 379.
 montana, 379.
Thuya gigantea, 402.
Thysanocarpus curvipes, 377.

Thysanocarpus pusillus, 377.
Tiarella trifoliata, 383.
 unifoliata, 383.
 Tides, 303.
Tillaea angustifolia, 383.
Tithonia argophylla, 657.
 Thurberi, 655.
 tubæformis, 656.
Tofieldia glutinosa, 405.
Tolmiea Menziesii, 383.
Tonella collinsioides, 394.
Trautvetteria grandis, 372.
 occidentalis, 372.
 palmata, 372.
 Treadwell, gift from, 327.
 legacy from, 439.
 Tribal Organization, 412.
Trichostema Arizonicum, 371.
 dichotomum, 371.
Trientalis Europæa, 394.
Trifolium ciliolatum, 379.
 cyathiferum, 379.
 eriocephalum, 379.
 fimbriatum, 379.
 gracilentum, 379.
 Macraei, 379.
 microcephalum, 379.
 microdon, 379.
 pauciflorum, 379.
Trillium ovatum, 404.
 sessile, 404.
Tripolium angustum, 647.
 frondosum, 647.
Trisetum cernuum, 410.
 subspicatum, 410.
Triticum repens, 410.

U.

Uranic salts, 501.
 Urinary calculus, 501.
Utricularia vulgaris, 394.

V.

Vaccinium cæspitosum, 393.
 myrtilloides, 393.
 ovatum, 393.

Vaccinium parvifolium, 393.
 uliginosum, 393.
Vancouveria hexandra, 375.
Verbena bracteosa, 396.
Veronica alpina, 396.
 Americana, 396.
 serpyllifolia, 396.
Vibratory cilia, 140.
Viburnum ellipticum, 387.
Vicia gigantea, 380.
 Oregana, 380.
Viguiera nivea, 658.
Vilfa depauperata, 408.
Viola blanda, 377.
 canina, 377.
 glabella, 377.
 Hallii, 377.
 Nuttallii, 377.
 renifolia, 288.
 sarmentosa, 377.
 Virgil, reading of MSS., 336.
 Volcanic activity, 486.
 Votes of thanks, 7, 327, 439, 484.

W.

Wislizenia Palmeri, 622.

Woodsia scopulina, 411.
Wyethia, 654.
 amplexicaulis, 655.
 angustifolia, 655.
 Arizonica, 655.
 glabra, 654.
 helenioides, 654.
 helianthoides, 655.
 mollis, 655.
 ovata, 655.
 robusta, 391, 655.
 scabra, 655.

X.

Xanthisma, 633.
Xanthocephalum, 632.
 Wrightii, 632.
Xerophyllum setifolium, 405.
Xylorhiza, 399.
Xylosteon, 387.

Z.

Zinnæa, 654.
 Zone-observations, 500.
Zygadenus Nuttallii, 405.

